

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37257

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B01D 47/12, 53/14
US CL : 96/290, 352, 416, 242

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 96/290, 329, 351, 352, 416, 242; 261/115, 121.1, 126

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,661,130 A (EBELING et al) 28 April 1987 (28.04.1987), figures, col. 2, lines 30-37, col. 3, lines 15-47, col. 4, lines 5-55	1, 2, 7

Y		3-6, 8-17
X	US 2,070,578 A (BOWMAN) 16 February 1937 (16.02.1937), figure, col. 1, line 13 to col. 2, line 6	1, 2
Y	US 3,465,504 A (OROPEZA et al) 09 September 1969 (09.09.1969), figure 1, col. 2, lines 40-41	3, 12
Y	US 3,957,464 A (TELLER) 18 May 1976 (18.05.1976), abstract, col. 6, lines 8-15	4, 5, 13, 14
Y	US 2002/0110511 A1 (KLINGSPOR et al) 15 August 2002 (15.08.2002), abstract, paragraph 0006	6, 15
Y	US 4,247,532 A (SALETAN et al) 27 January 1981 (27.01.1981), col. 7, lines 23-64	9-17

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

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Date of the actual completion of the international search

21 March 2005 (21.03.2005)

Date of mailing of the international search report

06 APR 2005

Name and mailing address of the ISA/US

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Continuation of B. FIELDS SEARCHED Item 3:

DERWENT

search terms: diffuser, bubbles, spray